CLAIMS

What is claimed is:



- A portable electronic device comprising: an imager coupled to the portable electronic device; a laser scanner coupled to the portable electronic device; and an application specific integrated circuit (ASIC) comprising circuitry for communicating with the imager and laser scanner.
- 2. The portable electronic device of claim 1, further comprising a data blender adapted to receive data from multiple sources and distribute the data to multiple destinations based on a type or content of the data.
- 3. The portable electronic device of claim 1, the portable electronic device being a bar code reading terminal.
- 4. The portable electronic device of claim 1, the ASIC further comprising circuitry for carrying out at least one of the following functions:

power management; wake up control and power down; critical suspend shutdown; warm boot and cold boot; serial port for WAN radio; matrix keyboard scanning; IP security; analog converters; touch panel; smart and dumb battery modular memory IDE interface;

fingerprint reader;
USB host; and
magnetic stripe interface.

- 5. The ASIC of claim 4, the smart and dumb battery function including a gas gauging function
- 6. The ASIC of claim 4, the smart and dumb battery function including a cycle life function.
- 7. The ASIC of claim 4, the smart and dumb battery function including a charge control function.
 - 8. The ASIC of claim 4, the smart and dumb battery being a Ni-MH battery.
 - 9. The ASIC of claim 4, the smart and dumb battery being a Li-lon battery.
- 10. The ASIC of claim 4, the modular memory IDE interface function including a NAND memory function.
- 11. The ASIC of claim 4, the modular memory IDE interface function including a CF card function.
 - 12. A portable data collection system, comprising: a bar code reading terminal;

a data blender adapted to receive data from multiple sources and distribute the data to multiple destinations based on a type or content of the data; and

an application specific integrated circuit (ASIC) having circuits for communicating with an imager and a laser scanner and at least one of the following functions:

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power management;
wake up control and power down;
critical suspend shutdown;
warm boot and cold boot;
serial port for WAN radio;
matrix keyboard scanning;
IP security;
analog converters;
touch panel;
smart and dumb batteries;
modular memory IDE interface;
fingerprint reader;
USB host; and
magnetic stripe interface.
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- 13. The system of claim 12 providing a shared data path into a system memory for both the laser scanner and the imager data.
- 14. An application specific integrated circuit (ASIC) having circuits for communicating with an imager and a laser scanner and at least one of the following functions:

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power management;
wake up control and power down;
critical suspend shutdown;
warm boot and cold boot;
serial port for WAN radio;
matrix keyboard scanning;
IP security;
analog converters;
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touch panel;

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smart and dumb batteries;
modular memory IDE interface;
fingerprint reader;
USB host; and
magnetic stripe interface.
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15. A portable data collection system, comprising:

a bar code reading terminal; and

an application specific integrated circuit (ASIC) having circuits for implementing the following functions:

laser scanning;

imaging;

power management;

wake up control and power down;

critical suspend shutdown;

warm boot and cold boot;

serial port for WAN radio;

matrix keyboard scanning;

IP security;

analog converters;

touch panel;

smart and dumb batteries;

modular memory IDE interface;

fingerprint reader;

USB host; and

magnetic stripe interface.

16. The portable data collection system of claim 15, further comprising a data blender adapted to receive data from multiple sources and distribute the data to multiple destinations based on a type or content of the data.

- 17. The portable data collection system of claim 16, the data from the multiple sources being decoded within the system.
- 18. The portable data collection system of claim 17, the data from the multiple sources being decoded offline and processed on the bar code reading terminal at a later time.
- 19. The portable data collection system of claim 16, the data from the multiple sources being routed through a common driver.
- 20. The portable data collection system of claim 16, the data from the multiple sources being at least one of biometrics data, magstripe data, and RFID data.